

Title (en)  
A COMPOSITION FOR COGNITION AND COSMETIC PURPOSES

Title (de)  
ZUSAMMENSETZUNG FÜR KOGNITIVE UND KOSMETISCHE ZWECKE

Title (fr)  
COMPOSITION UTILISÉE À DES FINS COGNITIVES ET COSMÉTIQUES

Publication  
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Application  
**EP 13832854 A 20130226**

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Abstract (en)  
[origin: WO2014035233A1] The present invention is related to a composition containing an extract from the Polygonum minus for cognition and cosmetic purposes. The method of obtaining the said extract from the Polygonum minus is also disclosed. In another preferred embodiment, the cognition and cosmetic composition contains extract of Polygonum minus comprise a combination of compounds characterized by presence of quercetin-3-glucuronide and quercitrin. In another preferred embodiment, wherein the amount of said extract of Polygonum minus is selected based on its having efficacy in prevention of oxidative damage demonstrated by a high antioxidant value and Cell-based Antioxidant Protection in an Erythrocyte model (CAP-e assay). In another preferred embodiment, there is provided a process for isolation of an active extract from Polygonum minus comprising the steps of a) subjecting the said Polygonum minus including aerial parts of the plant including stem and/or leaves to solvent extraction preferably with a material solvent ratio of 1: 10-20 by percolation at a temperature range of 70-105° C preferably 80° C to obtain the extract; and b) filtering the extract obtained from step (a) above followed by concentration and drying involving freeze drying, spray drying or vacuum belt drying to obtain therefrom the dry extract powder.

IPC 8 full level  
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Citation (search report)  
• [Y] EP 2246037 A2 20101103 - KORRES S A NATURAL PRODUCTS [GR]  
• [Y] US 2008025930 A1 20080131 - CORSTJENS HUGO [BE], et al  
• [Y] DE 4339486 A1 19950524 - BACKHAUS ERWIN [DE]  
• [X] QADER SUHAILAH WASMAN ET AL: "Pharmacological mechanisms underlying gastroprotective activities of the fractions obtained from Polygonum minus in Sprague Dawley rats.", INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 2012, vol. 13, no. 2, 1 February 2012 (2012-02-01) - 1 February 2012 (2012-02-01), pages 1481 - 1496, XP002753314, ISSN: 1422-0067  
• [X] H.C. ONG ET AL: "Malay ethno-medico botany in Machang, Kelantan, Malaysia", FITOTERAPIA., vol. 70, no. 5, 1 October 1999 (1999-10-01), IT, pages 502 - 513, XP055243682, ISSN: 0367-326X, DOI: 10.1016/S0367-326X(99)00077-5  
• [Y] YAMAMOTO ET AL: "Ginkgo biloba extract improves spatial memory in rats mainly but not exclusively via a histaminergic mechanism", BRAIN RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 1129, 10 January 2007 (2007-01-10), pages 161 - 165, XP005931947, ISSN: 0006-8993, DOI: 10.1016/J.BRAINRES.2006.08.102  
• [Y] FENGLING PU ET AL: "Neuroprotective Effects of Quercetin and Rutin on Spatial Memory Impairment in an 8-Arm Radial Maze Task and Neuronal Death Induced by Repeated Cerebral Ischemia in Rats", JOURNAL OF PHARMACOLOGICAL SCIENCES, vol. 104, no. 4, 1 January 2007 (2007-01-01), pages 329 - 334, XP055101540, ISSN: 1347-8613, DOI: 10.1254/jphs.FP0070247  
• [Y] SUN ET AL: "Quercetin attenuates spontaneous behavior and spatial memory impairment in d-galactose-treated mice by increasing brain antioxidant capacity", NUTRITION RESEARCH, ELSEVIER INC, XX, vol. 27, no. 3, 23 March 2007 (2007-03-23), pages 169 - 175, XP005929083, ISSN: 0271-5317, DOI: 10.1016/J.NUTRES.2007.01.010  
• [T] ANNIE GEORGE ET AL: "In vitro and ex-vivo cellular antioxidant protection and cognitive enhancing effects of an extract of Polygonum minus Huds (Linemimus?) demonstrated in a Barnes Maze animal model for memory and learning", BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE, BIOMED CENTRAL LTD., LONDON, GB, vol. 14, no. 1, 19 May 2014 (2014-05-19), pages 161, XP021186406, ISSN: 1472-6882, DOI: 10.1186/1472-6882-14-161  
• [T] SUZANA SHAHAR ET AL: "The effect of Polygonum minus extract on cognitive and psychosocial parameters according to mood status among middle-aged women: a randomized, double-blind, placebo-controlled study", CLINICAL INTERVENTIONS IN AGING, 1 September 2015 (2015-09-01), pages 1505, XP055243336, DOI: 10.2147/CIA.S86411  
• [XY] PENG Z F ET AL: "Antioxidant flavonoids from leaves of Polygonum hydropiper L", PHYTOCHEMISTRY, PERGAMON PRESS, GB, vol. 62, no. 2, 1 January 2003 (2003-01-01), pages 219 - 228, XP004397307, ISSN: 0031-9422, DOI: 10.1016/S0031-9422(02)00504-6  
• [XY] MAMOT BIN SAID: "TRADITIONAL MALAYSIAN SALADS (ULAM) AS A SOURCE OF ANTIOXIDANTS", PROSIDING SEMINAR KIMIA BERSAMA UKM-ITB VIII, 9 June 2009 (2009-06-09), XP055277980  
• [XI] QADER SUHAILAH WASMAN ET AL: "Antioxidant, total phenolic content and cytotoxicity evaluation of selected Malaysian plants.", MOLECULES (BASEL, SWITZERLAND) 2011, vol. 16, no. 4, 2011, pages 3433 - 3443, XP002758466, ISSN: 1420-3049  
• [Y] DATABASE WPI Week 199549, Derwent World Patents Index; AN 1995-379970, XP002758467  
• See references of WO 2014035233A1

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